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et No.: 050212-0716 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Akihiko NAMBA, et al. : Confirmation Number: 3240

Application No.: 10/580,346 : Group Art Unit: Not Yet Assigned

Filed: May 25, 2006 : Examiner: Not yet assigned

For: DIAMOND N-TYPE SEMICONDUCTOR, METHOD OF MANUFACTURING THE

SAME, SEMICONDUCTOR DEVICE, AND ELECTRON EMITTING DEVICE

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

The relevance of corresponding references for JP 62-70295 A (Japanese Patent Application No. 1704860) and JP 63-302516 A (Japanese Patent Application No. 2081494), as well as reference JP 3374866 B2 and "Characterization of Boron-Doped Diamond"

10/580,346

Epitaxial Films," by H. SHIOMI ET AL., "Ohmic Electrode of Phosphorus Doped N-Type

Diamond," "Growth and characterization of phosphorous doped {111} homoepitaxial

diamond thin films," by S KOIZUMI ET AL., and "Synthesis of S-doped N-Type Diamond

Semiconductor," by M. G. NISHITANI ET AL., all listed on the attached Form PTO-1449, is

discussed in the specification.

Submitted herewith is the International Preliminary Report on Patentability, mailed

August 3, 2006, concerning International Application No. PCT/JP2004 /017077, filed on

November 17, 2004, along with the Written Opinion of the International Searching Authority.

The documents discussed in the International Preliminary Report on Patentability should already

be of record in this application.

Please charge any shortage in fees due in connection with the filing of this paper,

including extension of time fees, to Deposit Account 500417 and please credit any excess fees to

such deposit account.

Respectfully submitted,

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Please recognize our Customer No. 20277 as our correspondence address.

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Searching Authority										
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.